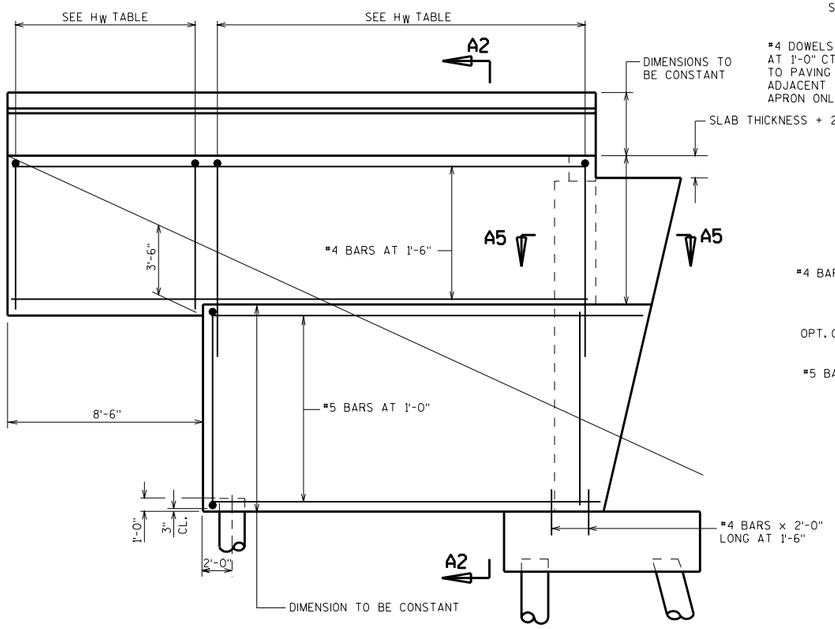
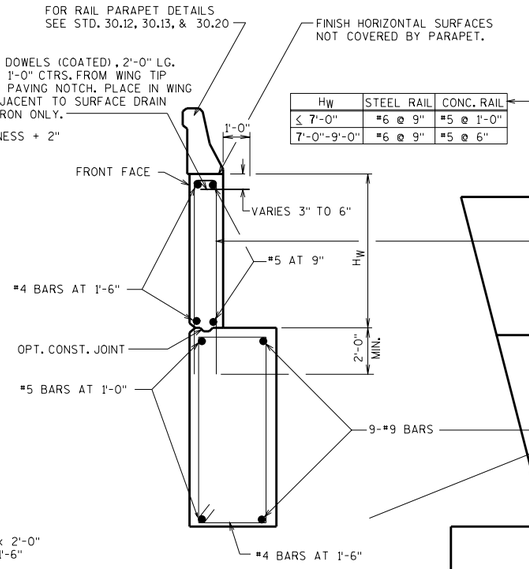


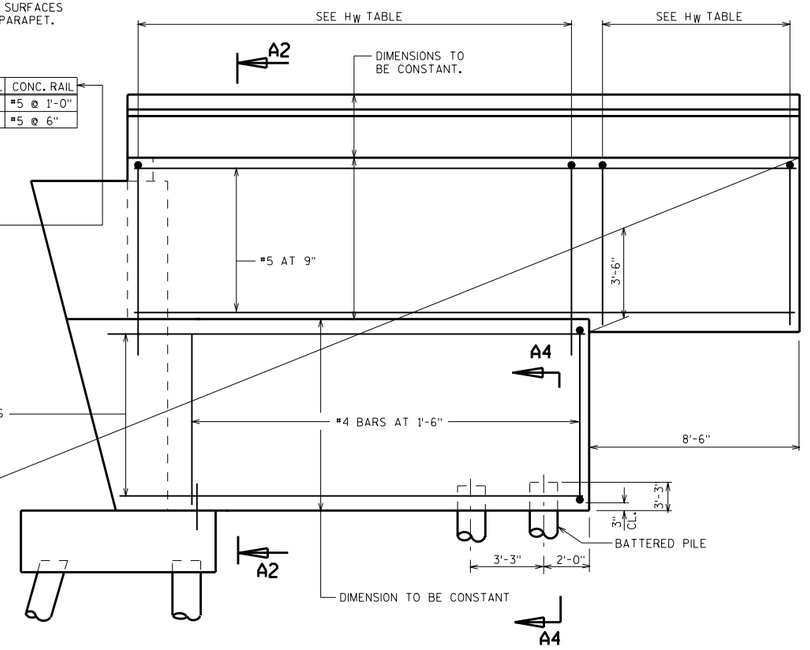
WING ELEVATION

WING LENGTH TO 26'-6"



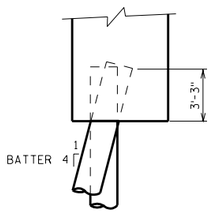
H_W	STEEL RAIL	CONC. RAIL
≤ 7'-0"	#6 @ 9"	#5 @ 1'-0"
7'-0"-9'-0"	#6 @ 9"	#5 @ 6"

SECTION A2

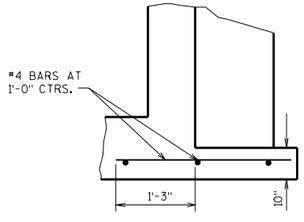


WING ELEVATION

WING LENGTH OVER 26'-6" TO 29'-6"



SECTION A4



SECTION A5

DESIGNER NOTES

BODY IS DESIGNED FOR AN EQUIVALENT FLUID PRESSURE OF 40 LBS. PER SQ. FT. 2'-0" SURCHARGE AND SUPERSTRUCTURE REACTIONS "P".

WINGS ARE DESIGNED FOR AN EQUIVALENT FLUID PRESSURE OF 33 LBS. PER SQ. FT. AND A 2'-0" SURCHARGE. A 10 KIP LATERAL RESISTANCE IS USED FOR THE GROUP OF 2 WING PILES. NO LATERAL RESISTANCE IS USED FOR SINGLE PILES IN WING.

FRONT ROW PILES ARE DESIGNED FOR AN EQUIVALENT FLUID PRESSURE OF 40 LBS. PER SQ. FT. AND SUPERSTRUCTURE REACTIONS "P". BACK ROW PILE DESIGN IS BASED ON AN EQUIVALENT FLUID PRESSURE OF 20 LBS. PER SQ. FT. AND "P".

UNIT WEIGHT OF SOIL IS ASSUMED AS 120 LBS. PER CU. FT.

BRIDGE SEATS BETWEEN BEARINGS SHALL SLOPE 1" FROM FRONT FACE OF BACKWALL.

f_y = 60,000 P.S.I.
f'_c = 3,500 P.S.I.
LOAD FACTOR (BODY) = 1.3 (5/3 LL + 1.3 E)
LOAD FACTOR (WINGS) = 1.3 (5/3 LL + 5/3 E)

PAY LIMITS FOR EXCAVATION FOR STRUCTURES & GRANULAR BACKFILL IS SHOWN IN CHAPTER 12 OF THE BRIDGE MANUAL.

ALL WING BARS SHALL BE EPOXY COATED.

WHEN TYPE "F", "W" OR "M" RAILING IS USED, LOCATE NAME PLATE ON FIRST RIGHT WING TRAVELING UP STATION.

FOR MODULAR EXPANSION JOINTS W/CONC. DIAPH. RUNNING TO EDGE OF DECK: IF SIDEWALL IS USED, FORM SIDEWALL 2" BELOW CONC. DIAPH.

ABUTMENT A4
PILE FOOTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DEVELOPMENT SECTION

APPROVED: Stanley W. Woods

DATE: 7-04

STANDARD 12.6